

Work Order ID 64909



Page 1

Wednesday, December 22, 2010 2:58:06 PM

Item ID: D350-591-312

Accept



Setup Start



Revision ID:

Item Name: Heli-Access-Step, Long RH

Stop



Start Date: 12/22/2010 Start Qty: 10.00



Cust Item ID:

Required Date: 1/24/2011 Req'd Qty: 10.00

Customer:

Reference:

Approvals:

Process Plan:

[Signature]

Date: 10/22/22

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start



Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D3272

Rev B

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and type labels as per PPP D350-591-312 CHG001

8 n/01/21

OK for CU # 11/2/10

110

0.00



Large Fab

Large Fab

Memo

0.00

Large Fab

1-Bevel end for welding FWD ONLY

2-Weld Support using Jig DT8719, weld Fwd End Plate as per QSI 004 & Dwg D3272

A/R Aluminum Rod *M108436*
M115928

3-Grind End Plate flush

11-01-12

8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

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Cust Item ID:

Required Date: 1/24/2011 Req'd Qty: 10.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120

QC9- Inspect visual per QSI004- Fusion Welds

0.00



QC

Memo

0.00

Quality Control

(K8) X8 0 BE 11/01/13

130

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

8 11/01/13

(K8)
RH

140

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

Hand Finishing

BRH d 11/01/13

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

78 BL 11-01-14

180

Large Fab

0.00



Large Fab

Memo

0.00

Large Fab

11-01-18

8

1-Assemble Leg Assembly as per Dwg D3272.

2-Leave one rivet out until welding is complete.

3-Bevel Aft end for welding

4-Inspect for foreign object as per QSI 024

5-Weld Aft End Plate as per QSI 004 & Dwg D3272
A/R ☐ Aluminum Rod M108436

6-Grind End Plate flush

7-Install last rivet as per Dwg.

W/O:		WORK ORDER CHANGES					
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Required Date: 1/24/2011 Req'd Qty: 10.00



Customer:

Reference:

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Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

190

QC9- Inspect visual per QSI004- Fusion Welds

0.00



QC

Memo

0.00

Quality Control

8 0 BE 11/10/10

200

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

Sulaks

28
RH

210

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

Hand Finishing

M 11/10/10

V8 RH

W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete each task.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress regularly to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves comparing the actual outcomes against the objectives and goals to determine the effectiveness of the project.

Wednesday, December 22, 2010 2:58:06 PM

Accept

Stop

[illegible][illegible]

Reference:

Abstract

Stop

**Insp.
Stamp**

00000000000000000000

1015951

Powdercoat

Memo

START TIME 2:20

OVEN TEMPERATURE: 350°

FINISH TIME: 2:50

Powder Coating

Wing Walk as per dwg QSI005 4.4 Batch M1157.000

00000000000000000000

HandFinish

Memo

Hand Finishing

0.00



QC

Memo

0.00

Quality Control

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

250

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

11/1/60 SP 3x

260

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

Sulatzl

ES
RM

270

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPPD350-591-312
Location: Phil

ReoB

11/1/64 SP 80

W/O:		WORK ORDER CHANGES					
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Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

280

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

CK 11/01/24

NAF
10-01-24

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Picklist Print

Wednesday, December 22, 2010 2:58:11 PM

Page 1

Work Order ID: 64909

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step, Long RH





Start Date: 12/22/2010

Required Date: 1/24/2011

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:A 04.03.22 New issue KJ/RF
 IPP Rev:B 07-06-09 Added D3572-1 JLM
 IPP Rev:C 08-04-02 ECN1163 DD verified by:EC
 IPP Rev:D 08-04-08 ECN1164 DD verified by:eC IPP Rev:D
 fixe route seq in bom DD 10.04.28 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3272-1 		Manufactured	No			110	Each	0.0000	1	10		11.01.12 364912	
Step													
D3067-1 		Manufactured	No			110	Each	116.0000	1	10		11.07.12	
End Plate													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				WA		116							
				60141		2							
				62664		6							
				63550		108							
D3219-1 		Manufactured	No			110	Each	113.0000	2	20		11.01.12	
Plate													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				WA		113							
				63551		113							
D3066-1 		Manufactured	No			180	Each	86.0000	2	20		11.01.18	
Spacer													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				WA		86							
				63549		86							

W/O:		WORK ORDER CHANGES					
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Wednesday, December 22, 2010 2:58:11 PM

Page 2

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Parent Item Name: Heli-Access-Step, Long RH

Start Date: 12/22/2010

Required Date: 1/24/2011

Start Qty: 10.00

Required Qty: 10.00

MS20600-AD4W4

Purchased

No

180

Each

2,351.000

16

160



Rivets

Location

Loc Qty

Loc Code

ST321

2351

113368

38

114181

11

114718

2

115573

147

115640

31

116022

622

116188

1500

128

D3065-041

Manufactured

No

180

Each

42.0000

1

10



Step Leg Assembly Hi

Location

Loc Qty

Loc Code

WA

42

63324

2

63555

40

8

D3067-1

Manufactured

No

180

Each

116.0000

1

10



End Plate

Location

Loc Qty

Loc Code

WA

116

60141

2

62664

6

63550

108

8

Wednesday, December 22, 2010 2:58:11 PM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Page 3

Work Order ID: 64909

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Parent Item Name: Heli-Access-Step, Long RH

Start Date: 12/22/2010

Required Date: 1/24/2011

Start Qty: 10.00

Required Qty: 10.00

AN3-35A

Purchased

No

250

Each

118.0000

- 2

20



Bolt

Location

Loc Qty

Loc Code

ST353

118

116191

100

116419

18

D3235-1

Manufactured

No

250

Each

61.0000

2

20



Mounting Lug

Location

Loc Qty

Loc Code

ST471

61

61845

1

63547

60

D3278-041

Manufactured

No

250

Each

8.0000

1

10



Support Assembly

Location

Loc Qty

Loc Code

ST460

8

64731

8

AN960JD416

NAS1149D0463J

Purchased

No

250

Each

30.0000

16

160



Washer

Location

Loc Qty

Loc Code

ST300

24

113288

24

ST356

6

115622

6

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Shop Packet Print

Page 3

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Page 4

Work Order ID: 64909

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step, Long RH

Start Date: 12/22/2010

Required Date: 1/24/2011

Start Qty: 10.00

Required Qty: 10.00

AN960JD516 NAS1149D0563J Purchased No

250 Each

34.0000

4

4032X



Washer



1114742

11/1/2010

Location

Loc Qty

Loc Code

ST

34

103694

18

107534

12

109287

4

AN5-36A

Purchased No

250 Each

101.0000

2

20



Bolt



11/1/2010

Location

Loc Qty

Loc Code

ST341

101

114292

1

116191

100

D2618

Manufactured No

250 Each

36.0000

2

20



Bushing



B65071 11/1/2010

Location

Loc Qty

Loc Code

ST019

36

63548

36

D2230-3

Manufactured No

250 Each

94.0000

4

40



Lug



B65067 11/1/2010

Location

Loc Qty

Loc Code

ST476

94

55452

2

63312

12

64422

80

Wednesday, December 22, 2010 2:58:11 PM

Shop Packet Print

Page 4

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Parent Item Name: Heli-Access-Step, Long RH

Start Date: 12/22/2010

Required Date: 1/24/2011

Start Qty: 10.00

Required Qty: 10.00

D2856-400

Manufactured No

250 f

275.2930 1.2



Abraison Strip



12/11/2010

Location

Loc Qty

Loc Code

ST403

275.2930421

56626

0.00004211

59920

59.293

63735

216

cut (2) D2856-400-720 as per dwg

MS21042L3

Purchased No

250 Each

1,870.000 2



11/1/2010

Nut

Location

Loc Qty

Loc Code

ST300

1870

114784

9

115835

957

116373

4

116391

900

AN4-13A

Purchased No

250 Each

274.0000 8



11/1/2010

Bolt

Location

Loc Qty

Loc Code

ST357

274

116191

274

11/1/2010

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Start Date: 12/22/2010

Required Date: 1/24/2011

Start Qty: 10.00

Required Qty: 10.00

MS21042L5

Purchased

No

250

Each

1,199.000

2

20



Nut

Location

Loc Qty

Loc Code

ST139

26

114813

26

ST300

1173

115156

5

115594

500

116104

172

116105

496

MS21042L4

Purchased

No

250

Each

4,242.000

8

80



Nut

Location

Loc Qty

Loc Code

ST300

4242

1123143

2

115589

10

115621

730

116188

3500

AN960JD10

NAS1149D0363J

Purchased

No

250

Each

8.0000

4

40



Washer

Location

Loc Qty

Loc Code

ST335

6

107715

6

ST335

2

105792

2

Wednesday, December 22, 2010 2:58:11 PM

Shop Packet Print

Page 6

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DESIGN <i>GP</i>	DRAWN BY <i>B</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>CE</i>	APPROVED <i>H</i>	DRAWING NO. D3272	REV. B SHEET 1 OF 3
DATE 07.05.18		TITLE STEP ASSEMBLY, HI LONG	SCALE NTS
A	04.03.01	NEW ISSUE	
B	07.05.18	D3272-1 WAS D2622-120	

RELEASED

07 06 04 *ff*

QTY -041	QTY -042	PART NUMBER	DESCRIPTION
X		D3272-041	STEP ASSEMBLY, HIGH LONG (LH)
	X	D3272-042	STEP ASSEMBLY, HIGH LONG (RH)
1	1	D3065-041	LEG ASSEMBLY
2	2	D3066-1	SPACER
2	2	D3067-1	END PLATE
2	2	D3219-1	SUPPORT
1	1	D3272-1	STEP
16	16	MS20600AD4W4	RIVET

GENERAL NOTES:

- 1) D3272-041 SHOWN. FOR D3272-042, INSTALL D3219-1 SUPPORT OPPOSITE SIDE
- 2) WELD PER DART QSI 004
- 3) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005.4.1
POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT PER DART QSI 005 4.4
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 5) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 6) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX.

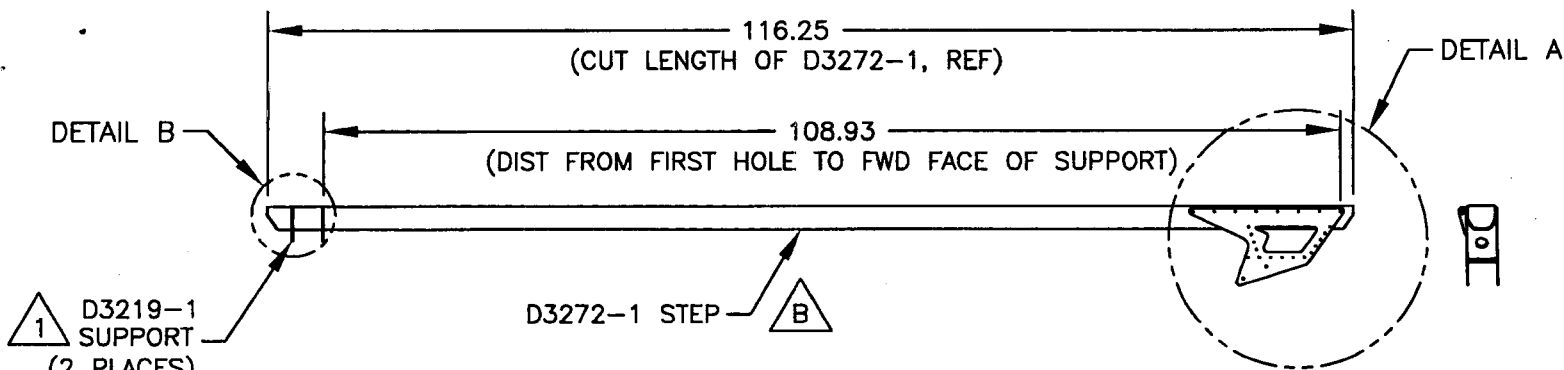
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UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. *04909*
BS1012-22

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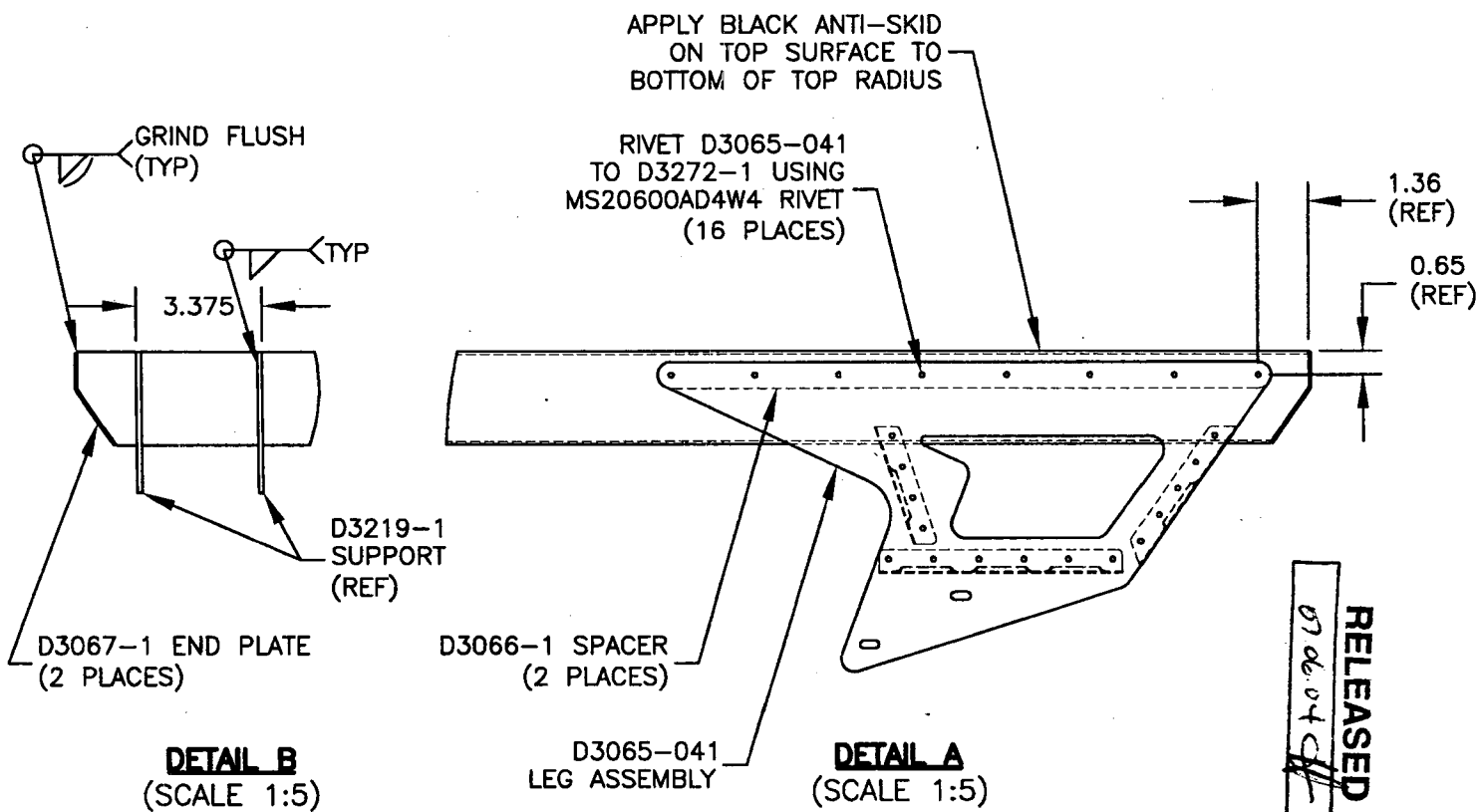
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DESIGN	90	DRAWN BY	JR	DART AEROSPACE LTD
CHECKED	CE	APPROVED	CE	HAWKESBURY, ONTARIO, CANADA
DATE	07.05.18	TITLE	STEP ASSEMBLY, HI LONG	REV. B
				SHEET 2 OF 3
				SCALE 1:20



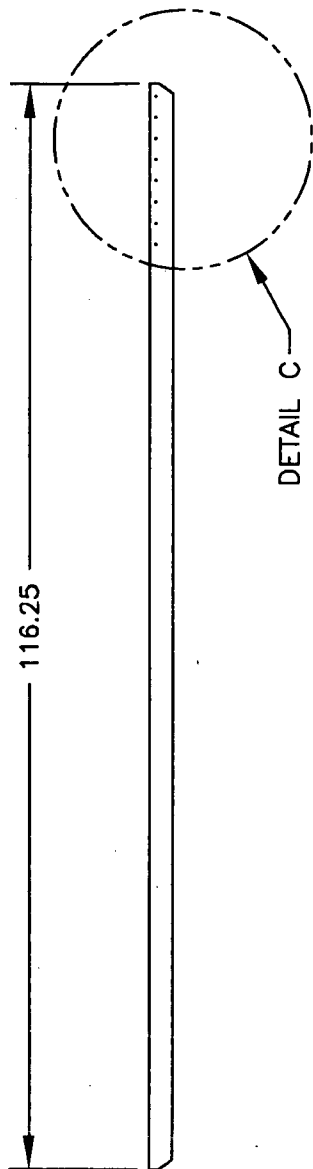
D3272-041 STEP ASSEMBLY (LH. SHOWN)
D3272-042 STEP ASSEMBLY (RH, OPPOSITE)



RELEASED
07.06.04



DESIGN <i>qp</i>	DRAWN BY <i>JB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>LE</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3272	REV. B SHEET 3 OF 3
DATE 07.05.18	TITLE STEP ASSEMBLY, HI LONG		SCALE 1:20

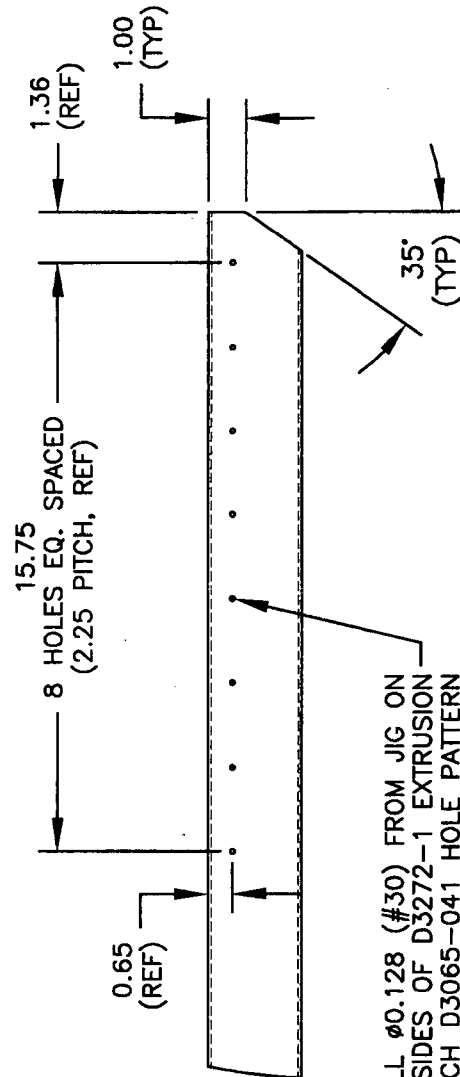


DETAIL C

B **D3272-1 STEP**

(MAKE FROM D2622-120 STEP EXTRUSION)

wo CH909



DRILL $\phi 0.128$ (#30) FROM JIG ON BOTH SIDES OF D3272-1 EXTRUSION TO MATCH D3065-041 HOLE PATTERN

DETAIL C
(SCALE 1:5)

RELEASED

07.06.04 *[Signature]*

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Qty -211	Qty -212	Qty -213	Qty -214	Qty -215	Qty -216	Qty -311	Qty -312	Part Number	Description
X								D350-591-211	Heli-Access-Step™, Long Step – High Skid, LH
	X							D350-591-212	Heli-Access-Step™, Long Step – High Skid, RH
		X						D350-591-213	Heli-Access-Step™, Short Step – High Skid, LH
			X					D350-591-214	Heli-Access-Step™, Short Step – High Skid, RH
				X				D350-591-215	Heli-Access-Step™, Short Step – Low Skid, LH
					X			D350-591-216	Heli-Access-Step™, Short Step – Low Skid, RH
						X		D350-591-311	Heli-Access-Step™, Long Step – High Skid, LH
							X	D350-591-312	Heli-Access-Step™, Long Step – High Skid, RH
1								D3070-041	STEP ASSEMBLY (HIGH-LONG, LH)
	1							D3070-042	STEP ASSEMBLY (HIGH-LONG, RH)
		1						D3078-041	STEP ASSEMBLY (HIGH-SHORT, LH)
			1					D3078-042	STEP ASSEMBLY (HIGH-SHORT, RH)
				1				D3168-041	STEP ASSEMBLY (LOW-SHORT, LH)
					1			D3168-042	STEP ASSEMBLY (LOW-SHORT, RH)
						1		D3272-041	STEP ASSEMBLY (HIGH-LONG, LH)
							1	D3272-042	STEP ASSEMBLY (HIGH-LONG, RH)
4	4							D2182B035	RUBBER CUSHION
		2	2	2	2			D2230-1	MOUNTING LUG
		2	2	2	2	4	4	D2230-3	MOUNTING LUG
8	8							D2274	RADIUS BLOCK
						2	2	D2618	BUSHING
4	4	4	4	4	4			D2732-030	CUSHION
2	2	1	1	1	1	2	2	D2856-400-720	ABRASION STRIP
2	2							D3064-1	CLAMP
1	1							D3079-041	SUPPORT ASSEMBLY
4	4							D3080-1	CLAMP
						2	2	D3235-1	MOUNTING LUG
						1	1	D3278-041	SUPPORT ASSEMBLY
2	2	2	2	2	2	2	2	AN3-35A	BOLT
10	10	2	2	2	2			AN4-11A	BOLT
		4	4	4	4		8	AN4-13A	BOLT
						2	2	AN5-36A	BOLT
4	4	4	4	4	4	4	4	AN960JD10	WASHER
20	20	12	12	12	12	16	16	AN960JD416	WASHER
						4	4	AN960JD516	WASHER
2	2	2	2	2	2	2	2	MS21042L3	NUT
10	10	6	6	6	6	8	8	MS21042L4	NUT
						2	2	MS21042L5	NUT
						1	1	*DSI 9410-011	STEP MODIFICATION KIT

*DSI 9410-011 Step Modification Kits are provided with all D350-591-311 and D350-591-312 Steps. This kit is provided as an option for the installer and is therefore **NOT REQUIRED** to complete the installation of the D350-591-311 or D350-591-312 Steps. Refer to Figure 21 for installation of the DSI 9410-011 Kit.